

Cell cycle compound Library

Catalog No: #L8100

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Description

Product Name	Cell cycle compound Library
Brief Description	Cell cycle, the ordered sequence of events that occur in acellin preparation forcell division, is also divided into two periods:interphase and themitotic(M) phase. Interphase itself is split into different phases: G1 phase, S phase and G2 phase. Cell Cycle related compounds rely on differing mechanisms of action to regulate the normal progression of the cell cycle. Some of these compounds interfere with CDK/cyclin complexes leaving cells stuck at the G2/M phase border, while others affect CaMKII phosphorylation, inducing arrest at the G1phase. Other mechanisms of action include interference with RNA function and inhibition of protein synthesis. Many of these compounds ultimately induce apoptosis as a result of their interruption of the cell cycle.This library can be used for anti-cancer drug screening.
Storage	Powder or pre-dissolved DMSO solutions in 96 well plate with optional 2D barcodeShipped with dry ice; Stable for One year as powder, 6 months at - 20 ° C in DMSO or 12months at -80 ° C in DMSO

Application Details

Number of Compounds:130

Product Description

A unique collection of 130 cell cycle related compounds for high throughput screening (HTS) and high content screening (HCS); Targets include CDK, ROCK, Aurora Kinase, ATM/ATR, DNA-PK, DNA/RNA Synthesis, etc.; Effective tool for research in cell cycle and related diseases, such as cancer, cardiovascular diseases, inflammation, neurodegenerative diseases, etc.; Safety and effectiveness of the small molecules have been demonstrated through preclinical and clinical research, and some of them are FDA approved; Detailed compound information with structure, target, activity, IC50 value, and biological activity description; Structurally diverse, medicinally active, and cell permeable; NMR and HPLC/LCMS validated to ensure high purity and quality

Note: This product is for in vitro research use only